

Title (en)

CENTRIFUGAL PUMP WITH A DEVICE FOR REMOVING PARTICLES

Title (de)

ZENTRIFUGALPUMPE MIT EINER VORRICHTUNG ZUR ENTFERNUNG VON PARTIKELN

Title (fr)

POMPE CENTRIFUGE DOTÉE D'UN DISPOSITIF D'ENLÈVEMENT DE PARTICULES

Publication

EP 2386030 A1 20111116 (DE)

Application

EP 09801971 A 20091221

Priority

- EP 2009067619 W 20091221
- EP 09150312 A 20090109
- EP 09801971 A 20091221

Abstract (en)

[origin: WO2010079088A1] A centrifugal pump (1, 101) comprises a device for removing particles, wherein the centrifugal pump comprises an impeller (6, 106). A fluid (2, 102) can be conveyed by means of said impeller (6, 106) through a suction channel (5, 105) from a suction port (3, 103) to a pressure port (4, 104). The impeller (6, 106) can be rotated in a stator (7, 107). A gap (9, 19, 109) is arranged between stator (7, 107) and impeller (6, 106), wherein said gap (9, 19, 109) leads into a retaining space (11, 21, 111) for particles. Said retaining space (11, 21, 111) is connected to said suction channel (5, 105) via a return line (12, 112) running through said stator (7, 107).

IPC 8 full level

F04D 7/04 (2006.01); **F04D 29/18** (2006.01)

CPC (source: EP US)

F04D 1/063 (2013.01 - EP US); **F04D 7/04** (2013.01 - EP US); **F04D 29/167** (2013.01 - EP); **F04D 29/185** (2013.01 - EP US); **F04D 29/708** (2013.01 - EP)

Citation (search report)

See references of WO 2010079088A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

WO 2010079088 A1 20100715; BR PI0923965 A2 20160621; BR PI0923965 B1 20200128; EP 2386030 A1 20111116; EP 2386030 B1 20180620; ES 2676510 T3 20180720; US 2011229308 A1 20110922; US 8858157 B2 20141014

DOCDB simple family (application)

EP 2009067619 W 20091221; BR PI0923965 A 20091221; EP 09801971 A 20091221; ES 09801971 T 20091221; US 200913131791 A 20091221